

Title (en)

IM-11 cristalline solid having LTA-type structure and process for its preparation

Title (de)

IM-11 kristalliner Festkörper des Strukturtyps LTA und Verfahren zu seiner Herstellung

Title (fr)

Solide cristallisé IM-11 de type structural LTA et son procédé de préparation.

Publication

**EP 1510501 B1 20110914 (FR)**

Application

**EP 04291816 A 20040715**

Priority

FR 0309410 A 20030730

Abstract (en)

[origin: FR2858334A1] A crystallized IM-11 solid with a Linde Type A (LTA) structure, with a neutral framework, has a chemical composition expressed on an anhydride base, in terms of mole of oxides, defined by the general formula:  $XO_2:mYO_2:qR:sF$  in which R represents one or more organic nitrogenous compounds, X represents one or more tetravalent elements different from germanium, Y represents germanium, F is fluorine, m, q and s represent respectively the number of moles of  $YO_2$ , R and F, m is between 0, 1 and 4, q and s are between 0 and 1. An independent claim is also included for the preparation of the crystallized IM-11 solid.

IPC 8 full level

**C01B 37/00** (2006.01); **C07D 498/08** (2006.01); **B01J 20/06** (2006.01); **B01J 20/10** (2006.01); **B01J 20/18** (2006.01); **C01B 39/48** (2006.01)

CPC (source: EP US)

**B01J 20/06** (2013.01 - EP US); **B01J 20/10** (2013.01 - EP US); **C01B 37/005** (2013.01 - EP US); **Y10S 423/24** (2013.01 - EP US)

Cited by

FR2923476A1; FR2923477A1; US8361436B2; US8372377B2; WO2009090338A1; WO2009090337A1; WO2005087663A1; EP1736441A1

Designated contracting state (EPC)

BE DE DK GB NL

DOCDB simple family (publication)

**FR 2858334 A1 20050204**; **FR 2858334 B1 20050902**; DK 1510501 T3 20111024; EP 1510501 A1 20050302; EP 1510501 B1 20110914; JP 2005047800 A 20050224; JP 4756308 B2 20110824; US 2005058596 A1 20050317; US 7056490 B2 20060606

DOCDB simple family (application)

**FR 0309410 A 20030730**; DK 04291816 T 20040715; EP 04291816 A 20040715; JP 2004222686 A 20040730; US 90242504 A 20040730